

## ABSTRACT

A highly-laminated magnetic inductor core and integrated inductor, and methods for making the same are disclosed. A representative method for manufacturing a highly-laminated magnetic inductor core includes: depositing at least 5 a first layer of a ferromagnetic material; depositing at least a first layer of a sacrificial conductive material; depositing a support structure formed of a ferromagnetic material; and removing the sacrificial conductive material, thereby leaving the at least first layer of ferromagnetic material mechanically supported by the support structure.